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2016 (S)

Roll No: _____

INTERMEDIATE PART-I (11th CLASS)

PHYSICS PAPER-I

TIME ALLOWED: 3.10 Hours

SUBJECTIVE

MAXIMUM MARKS: 83

NOTE: - Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

2. Attempt any eight parts. **8 × 2 = 16**

(i) What are the dimensions and units of Gravitational Constant G in the formula $F = G\frac{m_1 m_2}{r^2}$?

(ii) The period of simple pendulum is measured by a stop watch. What type of errors are possible in the time period?

(iii) State principle of Homogeneity of Dimensions.

(iv) How many years are there in one Second?

(v) Two vectors have unequal magnitudes. Can their sum be zero? Explain briefly.

(vi) The vector sum of three vectors gives a zero resultant. What can be the orientation of these Vectors?

(vii) Suppose the sides of a closed polygon represent vector arranged head to tail. What is the sum of these Vectors?

(viii) At what point or points in its path does a projectile have its minimum speed, its maximum speed?

(ix) Define Isolated System. Give its one example.

(x) Motion with constant velocity is a special case of motion with constant acceleration. Is this statement true? Discuss.

(xi) Can the velocity of an object reverse the direction when acceleration is constant? If so, give an example.

(xii) Explain the working of a carburetor of a motor car using by Bernoulli's Principle.

3. Attempt any eight parts. **8 × 2 = 16**

(i) A girl drops a cup from a certain height, which breaks into piece, what energy changes are involved?

(ii) An object has 1 J of Potential energy. Explain what does it mean?

(iii) Define Solar Constant, write its Value.

(iv) When mud flies off the tyre of a moving bicycle, in what direction does it fly? Explain.

(v) Explain what is meant by centripetal force and why it must be furnished to an object, if the object is to follow a circular path?

(vi) What is difference between Orbital and Spin Angular Momentum?

(vii) Name two characteristics of Simple Harmonic Motion.

(viii) Describe some common Phenomena in which resonance plays an important role.

(ix) Define Time Period and Frequency.

(x) Why does Sound travel faster in Solid than in gases?

(xi) How should a sound source move with respect to an observer so that the frequency of its sound does not change?

(xii) Define Beats and give its frequency formula.

4. Attempt any six parts. **6 × 2 = 12**

(i) How would you distinguish between Un-Polarized and Plane-Polarized lights?

(ii) Write the two conditions to observe the Phenomenon of Interference of light waves.

(iii) Why the Polaroid Sunglasses are better than Ordinary Sunglasses?

(iv) What is "single mode step index fibre"?

(v) One can buy a cheap microscope for use by the children. The images seen in such a microscope have coloured edges. Why is this so?

(vi) Can the mechanical energy be converted completely into heat energy? If so give an example.

(vii) Derive the Charles Law from Kinetic Theory of Gases.

(viii) Is it possible to construct a heat engine that will not expel heat into the atmosphere? Explain your answer.

(ix) What do you mean when we say "Entropy mean degradation of energy"?

SECTION-II

NOTE: - Attempt any three questions.

5.(a) What is Projectile Motion? Derive expression for:-
(i) Maximum height (ii) Range of projectile 5

(b) Find the projection of vector $\vec{A} = 2\hat{i} - 8\hat{j} + \hat{k}$ in the direction of the vector $\vec{B} = 3\hat{i} - 4\hat{j} - 12\hat{k}$ 3

P.T.O

Result.pk

6.(a) What is a Geostationary Orbit? Derive the relation for its radius and find its value. 5

(b) A child starts from rest at the top of a slide of height 4.0m. If he reaches the bottom with a speed of $6ms^{-1}$, What percentage of his total energy at the top of the slide is lost due to friction? 3

7.(a) State and derive Bernoulli's Equation. 5

(b) Calculate the entropy change when $1.0\,kg$ ice at $0^{o}C$ melts into water at $0^{o}C$. Latent heat of fusion of ice is $L_f = 3.36 \times 10^{6}\ J\ kg^{-1}$. 3

8.(a) Describe the effect of temperature on the speed of sound in a gas by proving that $V_t = V_0 + 0.61t$. 5

(b) Find the length and frequency of a Simple Pendulum at Karachi, if Time period 'T' is 1sec. 3

9.(a) What is Compound Microscope. Derive a relation for magnifying power of a compound microscope. 5

(b) A monochromatic light of $\lambda = 588nm$ is allowed to fall on the half silvered glass plate G_1, in the Michelson's interferometer. If mirror M_1 is moved through $0.233\,mm$, how many fringes will be observed to shift? 3

SECTION – III (PRACTICAL PART)

10.(A) Write answers of any four parts. **4 x 2 = 8**

(i) Derive formula $g = \dfrac{4\pi^2 x}{T^2}$ for vertical hanging mass with spring.

(ii) Define Second Pendulum.

(iii) Define Resultant Vector.

(iv) Derive the Formula $g = {}^{2S}/_{t^2}$ use in electronic time apparatus.

(v) Define like and unlike Parallel Forces.

(vi) Why does a paper rider fly off at certain fixed length of string in Sonometer?

(vii) Why end correction is not used in two resonance positions by using resonance tube?

(viii) State Snell's law.

(B) Write down the brief procedure for measuring volume of cylinder by Vernier callipers. **3**

OR

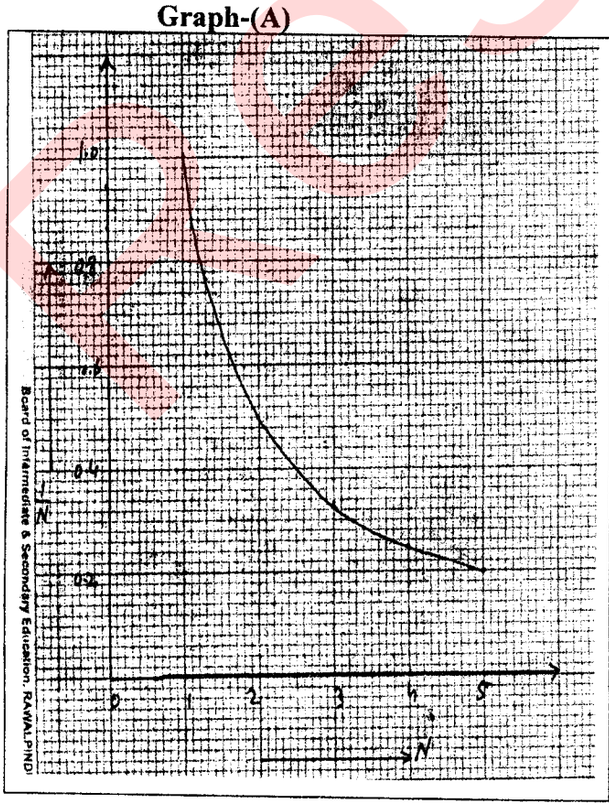
Write down the brief procedure for measuring focal length of convex lens by displacement method.

(C) Answer the following questions on the basis of graph drawn below. **2 + 2**

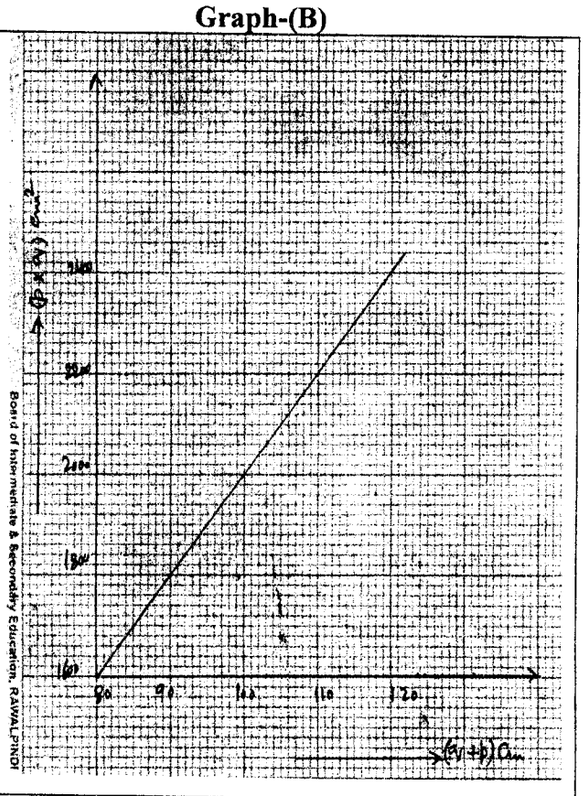
(a) (i) What is the type of graph? **OR** **(b)** (i) Find slope of graph.

(ii) Find value of $\dfrac{1}{2.5}$ and confirm by calculator. (ii) What does the slope represent?

Graph-(A)



Graph-(B)



Paper Code Number: 6471

2016 (S)

Roll No._____

INTERMEDIATE PART-I (11th CLASS)

PHYSICS PAPER-I

TIME ALLOWED: 20 Minutes
MAXIMUM MARKS: 17

OBJECTIVE

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

Q.No.1

(1) A measurement 0.0173 has significant figures:-

(A) 3 (B) 4 (C) 5 (D) 2

(2) The analogue of force in rotational motion is :-

(A) Torque (B) Angular momentum (C) Moment of inertia (D) Acceleration

(3) _____ is not conservative.

(A) Electric field (B) Magnetic field (C) Nuclear field (D) Gravitational field

(4) The irregular and unsteady flow is called:-

(A) Laminar flow (B) Streamline flow (C) Turbulent flow (D) Normal flow

(5) The acceleration in S.H.M is proportional to the:-

(A) Angular velocity (B) Displacement (C) Velocity (D) Acceleration

(6) Michelson devised an instrument using idea of:-

(A) Diffraction of rays (B) Interference of rays (C) Polarization of rays (D) Dispersion of rays

(7) The instrument used to measure speed of light is called:-

(A) Spectrometer (B) Telescope (C) Interferometer (D) Microscope

(8) The efficiency of petrol engine is:-

(A) 35% (B) 25% to 30% (C) 40% (D) 45%

(9) If ice melts, the entropy is:-

(A) Decreased (B) Increased (C) Remains the same (D) Finite

(10) Three laws of motions are given by:-

(A) Einstein (B) Newton (C) Abu Ali Sena (D) Faraday

(11) An un-powered and un-guided missile is called:-

(A) Guided missile (B) Powered missile (C) Ballistic missile (D) Un-powered missile

(12) The moment of inertia is measured in:-

(A) $Kg - m^{-2}$ (B) $Kg\ m^2$ (C) $N.S$ (D) $Rad\ /\ Second$

(13) The orbital momentum is given by:-

(A) Lr^2v (B) $L_0 = mrv$ (C) $L_0 = m^2va$ (D) $L_0 = m^2r^2v^2$

(14) Torque acting on a body is given by:-

(A) $\tau = I^2\alpha$ (B) $\tau = I\alpha^2$ (C) $\tau = I^2\alpha^2$ (D) $\tau = 1\alpha$

(15) With increase in temperature of medium, speed of sound:-

(A) Decreases (B) Increases (C) Remains same (D) Attains constant

(16) The additive property of waves is called:-

(A) Superposition (B) Beats (C) Interference (D) Stationary waves

(17) The waves which die very quickly in fluids are called:-

(A) X-rays (B) Sound waves (C) Heat waves (D) Light waves

Result.pk

Paper Code Number: 6473

2016 (S)

Roll No._____

INTERMEDIATE PART-I (11th CLASS)

PHYSICS PAPER-I

TIME ALLOWED: 20 Minutes
MAXIMUM MARKS: 17

OBJECTIVE

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Result.pk

Paper Code Number: 6475	2016 (S)	Roll No._____

INTERMEDIATE PART-I (11th CLASS)

PHYSICS PAPER-I

TIME ALLOWED: 20 Minutes
MAXIMUM MARKS: 17

OBJECTIVE

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Result.pk

Paper Code Number: 6477	2016 (S)	Roll No._____

INTERMEDIATE PART-I (11th CLASS)

PHYSICS PAPER-I

TIME ALLOWED: 20 Minutes
MAXIMUM MARKS: 17

OBJECTIVE

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Result.pk

ثانوی و اعلیٰ ثانوی تعلیمی بورڈ، ملتان

مورخہ: 14-11-16 مضمون: Physics پرچہ: I گروپ: _____

جنرل ہدایات برائے مارکنگ Key نیو سکیم / اولڈ سکیم (مارکنگ سکیم)

انٹر پارٹ فرسٹ / سیکنڈ ~~سالانہ~~ / ضمنی امتحان 2016ء

SECTION-I

For Question No2, 3 and 4 of Explaination OR idea / Reason is given then award the max. marks.

Q.No2:- (i) S.I unit of G (01 mark), Dimensions (01) mark

(ii) Two errors (01 + 01) marks

(iii) Statement of principle (02) marks

(iv) To show that, one second = 3.17×10^{-8} years (02 marks)

(v) Explaination Briefly (02 marks)

(vi) Explaination (02) marks

(vii) Explaination Briefly (02) marks

(viii) Max. Speed (01) mark, Min. Speed 01 mark

(ix) Definition + Example. (01 + 01) marks

(x) yes + Explaination (01 + 01) marks

(xi) yes + Example (01 + 01) marks

(xii) Explaination (02) marks

Q.No3:- (i) Briefly Explaination —— (02) marks

(ii) Explaination (02 marks)

(iii) Definition of Solas constant + Value (01 + 01) marks

(iv) Explaination Briefly. (02 marks)

(v) Explaination (02 marks)

(vi) Definitions OR Differences - (02 marks)

(vii) Two characteristics of SHM (01 + 01) marks

(viii) Any Two Phenomena (01 + 01) marks

(ix) Definition of (Time period + frequency) (01 + 01) marks

(x) Explaination (02 marks)

(xi) Explaination (02 marks)

(xii) Definition + Formula (01 + 01) marks

general instructions

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Result.pk

ثانوی و اعلیٰ ثانوی تعلیمی بورڈ، ملتان

مورخہ: 14 – 11 – 16 مضمون: Physics پرچہ: I گروپ:

Page. No2

جنرل ہدایات برائے مارکنگ Key نیو سکیم/اولڈ سکیم (مارکنگ سکیم)

انٹر پارٹ فرسٹ/ ~~ایکٹ~~/ ضمنی امتحان 2016ء

Q.NO4:- (i) Definitions OR Differences (01+01) marks

(ii) Two conditions of Interference (01+01) marks

(iii) Any Two points (02 marks)

(iv) Definitions (02 marks)

(v) Briefly Explaination (02) marks

(vi) yes + Example (01+01) marks

(vii) Derivation the Charles Law (02) marks

(viii) No + Explaination (01+01) marks

(ix) Briefly Explaination (02) marks

SECTION – II

Q.NO5 (a) Definition + max. Height + Range (01+02+02) marks

(b) Data + Formula (01) mark, Substitution values (01 mark)

Calculation of correct Ans. with units (01 mark)

$$A\cos\theta = \frac{\vec{A}\cdot\vec{B}}{B} \Rightarrow \boxed{A\cos\theta = 2} \text{ Ans}$$

Q.NO6 (a) Definition + Derivation of radius + Value (01+03+01) marks

(b) Data + Formula (01 mark), Sub. Values (01 mark)

Calculation of correct Ans with units (01 mark)

$$\%\text{ Loss of energy} = \frac{\text{Loss of Energy}}{\text{Total Energy}} \times 100 = 53.5\% = 54\%$$

$$\boxed{\%\text{ Loss of Energy} = 53.5\% \text{ OR } 54\%} \text{ Ans}$$

Q.NO7 (a) Statement + Derivation (01+04) marks

(b) Data + Formula (01) mark, Sub. Values (01 mark)

Calculation of correct Ans. with units (01 mark)

$$\Delta S = \frac{\Delta Q}{T} = \frac{mL_f}{T} = \boxed{1.23 \times 10^3 \frac{J}{K}} \text{ Ans.}$$

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general instructions

Q.No8 (a) Describe effect of Temp + prove that

$V_t = V_0 + 0.61t$ (01 + 04) marks

(b) Data + Formula (01-mark), Sub. values (01-mark)
Calculation of correct Ans. with units (01-mark)

$l = \frac{gT^2}{4\pi^2} \Rightarrow \boxed{l = 0.25\,m}$ Ans. $\boxed{f = \frac{1}{T} = \frac{1}{1.0} = 1\,Hz}$ Ans.

Q.No9(a) Definition + Derivation of mag. Poower (01+04) Mark.

(b) Data + Formula (01-mark), Sub. values (01-mark)
Calculation of correct Ans with units (01-mark)

$m = \frac{2L}{\lambda} \Rightarrow \boxed{m = 792}$ Ans.

SECTION-III

Q.No10(A) If idea / Reason OR Explaination is given in Answers give max marks $2 \times 4 = 8$ Marks

(B) Max. Marks should be given if Important steps with Formula are written for Brief procedure (03 Marks)

(C) Graph (A)

(i) The graph show the Portion of hyperbola (02) marks

(ii) The value of $\frac{1}{2.5}$ from the graph = 0.4

The value of $\frac{1}{2.5}$ by calculations = 0.4 (02) marks

OR

Graph B

(i) Slope $= \frac{P \times q}{P + q} = 20cm \Rightarrow \boxed{\text{Slope} = 20cm}$ Ans (02) marks

(ii) The slope of the graph Represents the focal length of lens which is 20cm $\Rightarrow \boxed{f = 20cm}$ Ans (02 marks)

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Result.pk
general instructions

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN

OBJECTIVE KEY FOR INTER (PART I / ~~II~~) Supply Examination, 2016.

Name of Subject PHYSICS Session ______________

Q. Nos.	Paper Code 6471	Paper Code 6473	Paper Code 6475	Paper Code 6477
1.	A	B	C	C
2.	A	A	B	B
3.	C	A	B	B
4.	C	A	B	C
5.	B	A	C	B
6.	B	C	B	B
7.	C	C	B	B
8.	B	B	D	C
9.	B	B	B	B
10.	B	C	A	B
11.	C	B	A	D
12.	B	B	A	B
13.	B	B	A	A
14.	D	C	C	A
15.	B	B	C	A
16.	A	B	B	A
17.	A	D	B	C
18.	/	/	/	/
19.	/	/	/	/
20.	/	/	/	/

سرٹیفیکیٹ بابت تصحیح سوالیہ پرچہ / مارکنگ Key

ہم نے مضمون Physics پرچہ: I گروپ: × سکیم • انٹر سالانہ / ضمنی امتحان 2016ء کا سوالیہ پرچہ ... (Subjective & Objevtive) کو بنظر عمیق چیک کرلیا ہے یہ پرچہ سلیبس کے عین مطابق Set کیا گیا ہے۔ اس سوالیہ پرچہ میں کسی قسم کی کوئی غلطی نہ ہے۔ ہم نے سوالیہ پرچہ کا اردو اور انگریزی Version بھی چیک کرلیا ہے یہ Version آپس میں مطابقت رکھتے ہیں اور سلیبس (Syllabus) کے مطابق بھی ہیں۔ نیز اس پرچہ کی Key کی بابت بھی تصدیق کی جاتی ہے کہ یہ بھی درست بنائی گئی ہے۔ اس میں بھی کسی قسم کی کوئی غلطی نہ ہے۔
مزید یہ کہ ہم نے Key بنانے سے متعلق دفتر کی جانب سے تیارہ کردہ ہدایات وصول کر کے ان کا بغور مطالعہ کرلیا ہے اور ان کی روشنی میں Key بنائی ہے۔

PREPARED & CHECKED BY

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